

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING SIGNAL AT MD 450 (ANNAPOLIS ROAD) AND MD 953 (GLENN DALE ROAD) IN PRINCE GEORGES COUNTY. MD 450 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION IS TO CONTINUE TO BE MODIFIED TO OPERATE IN A NEMA FIVE PHASE, FULLY-TRAFFIC-ACTUATED MODE. THE THROUGH MOVEMENTS ON MD 450 OPERATE CONCURRENTLY. THE EXCLUSIVE/PERMISSIVE LEFT TURN FOR THE MD 953 NORTHBOUND APPROACH SHALL OPERATE BETWEEN THE HOURS OF 7 A.M. AND 9 A.M. - MONDAY TO FRIDAY. AT ALL OTHER TIMES, IT SHALL BE OMITTED AND THE THROUGH MOVEMENTS ON MD 953 WILL OPERATE CONCURRENTLY.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER IS TO BE UTILIZED.

SPECIAL NOTE

THE INTERCONNECT BETWEEN THIS INTERSECTION AND THE MD 450 AND MD 704 INTERSECTION IS TO BE MAINTAINED DURING THIS PHASE.

ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UNDERGROUND AND OVERHEAD UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.

72 HOURS PRIOR TO ANY WORK ON THE TRAFFIC SIGNALS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 TRAFFIC SECTION REPRESENTATIVE, MR. RICHARD BUETTNER (301-513-7316) AND THE SIGNAL OPERATIONS SUPERVISOR, MR. EDWARD RODENHIZER (410-787-7652).

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

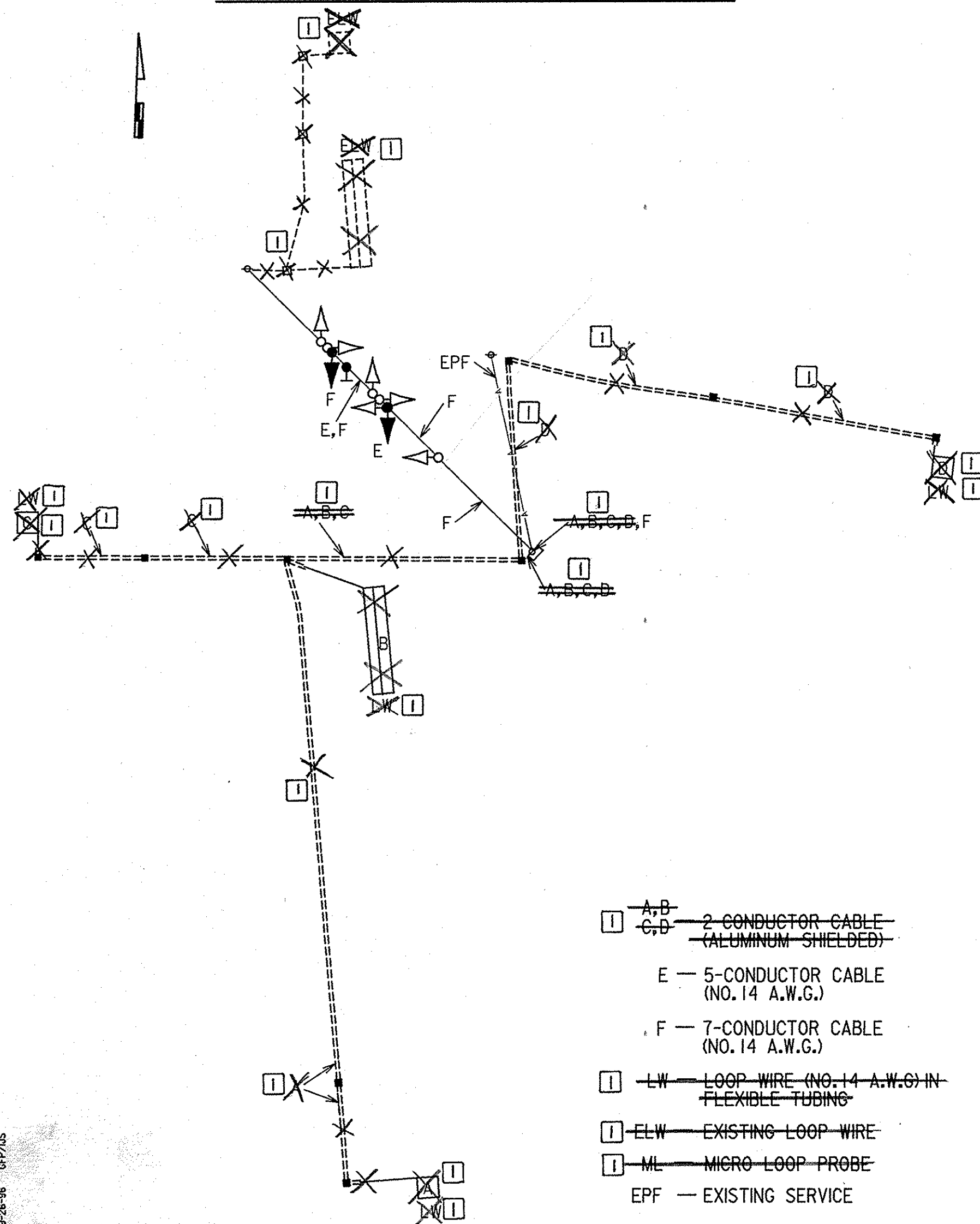
CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
960015	814	1 EA	12 IN. 1 WAY 3 SECTION (R,Y,G) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
960020	814	1 EA	12 IN. 1 WAY 5 SECTION (R,Y,G,YA,GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
1-963007	817	1 EA	TWO CHANNEL LOOP DETECTOR AMPLIFIER (DELAY OUTPUT)

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
114210	104	180 L.F.	6 IN. YELLOW REMOVABLE PREFORMED PAVEMENT MARKING TAPE
114245	104	16 L.F.	24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
805125	805	960 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
805145	805	130 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
1-805160	805	24 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
1-811001	811	9 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
860015	814	1 EA.	INSTALL 12 IN. 1 WAY 3 SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860020	814	1 EA.	INSTALL 12 IN. 1 WAY 5 SECTION (R,Y,G,YA,GA) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
1-861104	810	850 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861107	810	29 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	810	118 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
1-862101	810	725 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
1-862102	815	225 L.F.	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
800000	813	1 EA.	RELOCATE EXISTING OVERHEAD SIGN
800000	XXX	LUMP SUM	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

WIRING DIAGRAM



PHASE DIAGRAM

	1	2	3	4	5	6	7	8	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
PHASE 1 + 2	G	G	G	G	R	R	R	R	← →
1 + 2 CHANGE	Y	Y	Y	Y	R	R	R	R	
PHASE 3 + 8	R	R	R	R	G	G	R	R	↑ ↓
3 CHANGE	R	R	R	R	G	G	R	R	
PHASE 4 + 8	R	R	R	R	G	G	G	G	↑ ↓
4 + 8 CHANGE	R	R	R	R	Y	Y	Y	Y	
FLASHING OPERATION	F/Y	F/Y	F/Y	F/Y	F/R	F/R	F/R	F/R	↕

RED LINE REV. NO. 1
7-14-97

TEMPORARY SIGNAL
PHASE II

DWG. NO.
TS - 20

REVISIONS							
①	AUGUST 1996-WTB MODIFY EXISTING SIGNAL SHA NO. PG9005171						
JDM							
② 2/91 CHANGE SIGNALS TO POLYCARBONATE, ADJUST SPAN SHA NO. 855-2503.039							
JT	SR			ETP	TH		
④ INSTALL E/P LEFT TURN FOR NB MD 953							
DBD	SR	DZ	ETP		TH		

APPROVALS

ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 (ANNAPOLIS ROAD) AT MD 953 (GLENN DALE ROAD)

LOG MILE NO. 1604507.9 DATE 9/-/90

DRAWN BY:	N/A	F.A.P. NO.	N/A	PLAN SHEET NO.:	SHEET NO.
CHECK BY:	N/A	S.H.A. NO.	N/A	TS-3083C-XI-GI	366 OF 465
SCALE:	N/A	COUNTY	PRINCE GEORGES		

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND